### PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHOR	ITY		"ANC.	
То:			PCT PCT	
			RITTEN OPINION OF THE IONAL SEARCHING AUTHORITY	
			(PCT Rule 43bis.1)	
		Date of mailing (day/month/year)	See form PCT/ISA/210	
Applicant's or agent's file reference		FOR FURTHER ACTION		
38261126WO abu/bhr			See paragraph 2 below	
International application No. PCT/EP2005/000238	International filing date (			
International Patent Classification (IPC) or both national classification and IPC G01D5/04, B62D15/02				
Applicam  VALEO SCHALTER UND SE	INSOREN GMBH			
This opinion contains indications relat	ing to the following items			
l	-	•		
Box No. I Basis of the opinion				
Box No. II Priority				
Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability			ve step and industrial applicability	
Box No. IV Lack of unit	y of invention			
		is.1(a)(i) with regard to novelty, inventive step or industrial ons supporting such statement		
Box No. VI Certain docu	iments cited			
Box No. VII Certain defe	cts in the international app	lication		
Box No. VIII Certain obse	rvations on the internation	nal application		
			l be considered to be a written opinion of the	
	chosen IPEA has notified	the International Bure	cau under Rule 66.1 <i>bis</i> (b) that written opinions of	
If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.				
For further options, see Form PCT/ISA/220.				
3. For further details, see notes to Form I	PCT/ISA/220.		•	
Name and malliage address of the 10 to 200		LA-ut-d1-cc-		
Name and mailing address of the ISA/EP		Authorized officer		
Faccionile No.		Telephone No.		
Facsimile No.		Telephone No.		

International application No.
PCT/EP2005/000238

_	
Bo	x No. I Basis of this opinion
1.	With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
1	This opinion has been established on the basis of a translation from the original language into the following language
	, which is the language of a translation furnished for the purposes of international search (under
	Rule 12.3 and 23.1(b)).
2.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
	a. type of material
	a sequence listing
	table(s) related to the sequence listing
	b. format of material
	in written format
	in computer readable form
	c. time of filing/furnishing
	contained in the international application as filed.
	filed together with the international application in computer readable form.
	furnished subsequently to this Authority for the purposes of search.
3.	In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4.	Additional comments:

International application No.
PCT/EP2005/000238

Box	No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicabilicitations and explanations supporting such statement	ty;
1.	Statemer		
	Nove	Claims 6,11-20 Claims 1-5,7-10,21-23	YES
	Inver	Claims 1-5, 7-10, 21-23  Thive step (IS) Claims 6  Claims 1-5, 7-23	YES
	Indus	Claims 1-23 Claims	YES NO
2.	Citations	s and explanations:	
	1.	Reference is made to the following documents:	
		D1: DE 44 09 892 A1 (ROBERT BOSCH GMBH, 70469	
		STUTTGART, DE) 28 September 1995 (1995-09-28)	
		D2: EP-A-0 477 653 (WILHELM RUF KG) 1 April 1992	
		(1992-04-01)	
		D3: DE 198 18 799 A1 (DAIMLERCHRYSLER AG, 70567	
		STUTTGART, DE; DAIMLERCHRYSLER AG)	
		24 June 1999 (1999-06-24)	
	2.	NOVELTY	
	2.1	The present application does not meet the	
		requirements of PCT Article 33(1) because the	
		subject matter of claims 1 and 21 is not novel	
		within the meaning of PCT Article $33(2)$ .	

- a steering angle sensor (column 1, lines 6-8),

2.2 Document D1 discloses (the references between

parentheses refer to this document):

having a main rotor which can be coupled in a rotationally synchronous fashion to a steering column or steering wheel and which can be rotated about the axis of rotation of the steering column

International application No.
PCT/EP2005/000238

Box No. V

Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

(column 4, lines 53-57),

- having at least one additional rotor which can be driven by the main rotor (column 5, lines 8-11),
- having a first sensor unit for sensing the rotational angle position of the main rotor (column 4, lines 47-53),
- having a second sensor unit for sensing the rotational angle position of the additional rotor (column 5, lines 13-16),
- the additional rotor being capable of being rotated about the axis of rotation of the steering column, and at least one gearing element which is driven by the main rotor being provided for driving the additional rotor (column 5, lines 18-23 and figure 1).

The subject matter of claim 1 is therefore not novel and claim 1 does not meet the requirements of PCT Article 33(2).

- 2.3 The same reasoning applies correspondingly to the independent method claim 21. The subject matter of claim 21 is therefore not novel (PCT Article 33(2)).
- 2.4 The dependent claims 2-5, 7-10, 22, 23 do not contain any features which, in combination with the features of any claim to which they refer, meet the PCT requirements for novelty, see documents D1, D2 and the corresponding text references given in the search report.

### 3. INVENTIVE STEP

International application No.
PCT/EP2005/000238

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

- 3.1 The dependent claims 11-20 do not contain any features which, in combination with the features of any claim to which they refer, meet the PCT requirements for inventive step, see document D3 and the corresponding text references given in the search report.
- 3.2 The feature combination contained in claim 6 is neither known from the prior art nor suggested by it.

The reasons for this are as follows: the documents known from the prior art disclose rotational angle sensors in which the rotational axes of the main rotor and of the additional rotor are coaxial. There is no indication given to arrange the rotational axes of the rotors in an offset manner.

### 4. INDUSTRIAL APPLICABILITY

Claims 1-23 meet the requirements of PCT Article 33(4).

### PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHIN	G AUTHOR	ITY		W.C.	
То:	<u> </u>			PCT PCT	
				RITTEN OPINION OF THE IONAL SEARCHING AUTHORITY	
				(PCT Rule 43bis.1)	
			Date of mailing (day/month/year)	See form PCT/ISA/210	
Applicant's or agent's file reference			FOR FURTHER ACTION		
38261126WO abu,	/bhr	·	See paragraph 2 below		
International application No.	20	International filing date	(day/month/year)	Priority date (day/month/year) 20.01.2004	
PCT/EP2005/0002		13.01.2005		20.01.2004	
International Patent Classification G01D5/04, B62D3 Applicant		national classification an	dd IPC	·	
VALEO SCHALTER	UND SE	ENSOREN GMBH			
1. This opinion contains indications relating to the following items:    Box No. I   Basis of the opinion					
Name and mailing address of the	ISA/EP		Authorized officer		
Ecologic No.			Talaska N		
Facsimile No.			Telephone No.		

Form PCT/ISA/237 (cover sheet) (January 2004)

International application No.
PCT/EP2005/000238

Box	k No. I	Basis of this opinion	
1.	With	h regard to the language, this opinion has been established on the basis of the international application in the language in d, unless otherwise indicated under this item.	which it was
		This opinion has been established on the basis of a translation from the original language into the following language , which is the language of a translation furnished for the purposes of international se	earch (under
	-	Rule 12.3 and 23.1(b)).	•
2.		h regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to antion, this opinion has been established on the basis of:	the claimed
	a.	type of material	
		a sequence listing	
		table(s) related to the sequence listing	
	Ь.	format of material	
		in written format	
		in computer readable form	
	c.	time of filing/furnishing	
		contained in the international application as filed.	
		filed together with the international application in computer readable form.	
		furnished subsequently to this Authority for the purposes of search.	
3.		In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has furnished, the required statements that the information in the subsequent or additional copies is identical to that in the a filed or does not go beyond the application as filed, as appropriate, were furnished.	
4.	- Addi	litional comments:	
		•	

#### مستئد

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/EP2005/000238

		easoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; tations and explanations supporting such statement			
i.	Statement				
	Novelty (N)	Claims	6,11-20	YES	
		Claims	1-5,7-10,21-23	· NO	
	Inventive step (IS	) Claims	6	YES	
		Claims	1-5, 7-23	NO	
	Industrial applica	bility (IA) Claims	1-23	YES	
		Claims		NO	

### 2. Citations and explanations:

- 1. Reference is made to the following documents:
  - D1: DE 44 09 892 A1 (ROBERT BOSCH GMBH, 70469 STUTTGART, DE) 28 September 1995 (1995-09-28)
  - D2: EP-A-0 477 653 (WILHELM RUF KG) 1 April 1992 (1992-04-01)
  - D3: DE 198 18 799 A1 (DAIMLERCHRYSLER AG, 70567 STUTTGART, DE; DAIMLERCHRYSLER AG) 24 June 1999 (1999-06-24)

### 2. NOVELTY

- 2.1 The present application does not meet the requirements of PCT Article 33(1) because the subject matter of claims 1 and 21 is not novel within the meaning of PCT Article 33(2).
- 2.2 Document D1 discloses (the references between
   parentheses refer to this document):
  - a steering angle sensor (column 1, lines 6-8),
  - having a main rotor which can be coupled in a rotationally synchronous fashion to a steering column or steering wheel and which can be rotated about the axis of rotation of the steering column

International application No.
PCT/EP2005/000238

Box No. V

Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

(column 4, lines 53-57),

- having at least one additional rotor which can be driven by the main rotor (column 5, lines 8-11),
- having a first sensor unit for sensing the rotational angle position of the main rotor (column 4, lines 47-53),
- having a second sensor unit for sensing the rotational angle position of the additional rotor (column 5, lines 13-16),
- the additional rotor being capable of being rotated about the axis of rotation of the steering column, and at least one gearing element which is driven by the main rotor being provided for driving the additional rotor (column 5, lines 18-23 and figure 1).

The subject matter of claim 1 is therefore not novel and claim 1 does not meet the requirements of PCT Article 33(2).

- 2.3 The same reasoning applies correspondingly to the independent method claim 21. The subject matter of claim 21 is therefore not novel (PCT Article 33(2)).
- 2.4 The dependent claims 2-5, 7-10, 22, 23 do not contain any features which, in combination with the features of any claim to which they refer, meet the PCT requirements for novelty, see documents D1, D2 and the corresponding text references given in the search report.

### 3. INVENTIVE STEP

International application No.
PCT/EP2005/000238

Box No. V

Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

- 3.1 The dependent claims 11-20 do not contain any features which, in combination with the features of any claim to which they refer, meet the PCT requirements for inventive step, see document D3 and the corresponding text references given in the search report.
- 3.2 The feature combination contained in claim 6 is neither known from the prior art nor suggested by it.

The reasons for this are as follows:
the documents known from the prior art disclose
rotational angle sensors in which the rotational
axes of the main rotor and of the additional rotor
are coaxial. There is no indication given to arrange
the rotational axes of the rotors in an offset
manner.

### 4. INDUSTRIAL APPLICABILITY

Claims 1-23 meet the requirements of PCT Article 33(4).